POST GRADUATE EXAMINATION, MAY - 2018

MD MICROBIOLOGY

(PAPER ONE)

GENERAL BACTERIOLOGY & IMMUNOLOGY

[Time	e allotted: Three hours]	[Max Marks: 100]		
Note:	Attempt all questions Illustrate with suitable diagrams.			
Q. 1.	State the risk of improper disposal of biomedical waste. He	ow would you set up waste disposa		
	programme in your hospital?	(20)		
	menty one of each			
Q. 2.	Classify T cells. Write in details, the development, activation, selection, biological functions and various			
	assay methods of T cells.	(20)		
Q. 3.	Write briefly:	$(3 \times 10 = 30)$		
	a. Flow cytometry			
	b. Plasma sterilization			
	c. RAST			
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$		
	a. Stoke's method of AST			
	b. DNA vaccines			
	c. Dark ground microscopy			
	d. Bioterrorism			
	e. Runting syndrome			
	v			
	X			

POST GRADUATE EXAMINATION, MAY - 2018

MD MICROBIOLOGY (PAPER TWO)

SYSTEMIC BACTERIOLOGY & MYCOLOGY

[Time allotted: Three hours]		[Max Marks: 100]		
Note:	Attempt all questions Illustrate with suitable diagrams.			
	Discuss the immunology, pathogenesis and laboratory diagnosis	of foleiparum materia. Add a noto on		
Q. 1.	Enumerate the opportunistic fungal infections in man. Discuss viru	ilence factors and laboratory diagnosi		
	of any one of them.	(20)		
3.2				
Q. 2.	Enumerate diarrheagenic Escherichia coli. Briefly describe the virulence factors and detection of each			
	type.	(20)		
	Describle briefly:			
Q. 3.	Describe briefly:	$(3 \times 10 = 30)$		
	a. Mycetoma			
	b. Laboratory diagnosis of rickettsial infections in man			
	c. Antimicrobial drug resistance in Mycobacterium tuberculosis			
	Write short notes are			
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$		
	a. Phaeohyphomycosis			
	b. Candida auris			
	c. Mycotoxicosis			
	d. TRIC agents			
	e. Carbapenem resistant enterobacteriaceae			
	X			

POST GRADUATE EXAMINATION, MAY - 2018 MD MICROBIOLOGY (PAPER THREE)

VIROLOGY AND PARASITOLOGY

rm.	Hetted. Three hours!	[Max Marks: 100]
Time	allotted: Three hours]	[Max Marks: 160]
Note:	Attempt all questions Illustrate with suitable diagrams.	
Q. 1.	Discuss the immunology, pathogenesis and laboratory diagnosis of falc	iparum malaria. Add a note on
Q. 1	malarial vaccines.	(20)
0. 2.	Enumerate the zoonotic viral infections. Discuss in detail the morpholo	gy, pathogenesis, laboratory
	diagnosis and prophylaxis of rabies.	(20)
		$(3 \times 10 = 30)$
Q. 3.	Describe briefly:	$(3 \times 10 - 30)$
	a. Lab diagnosis of HIV infection in newborn	
	b. Coccidian parasites causing diarrhoea	
	c. Clinical classification and lab diagnosis of dengue	
		$(5 \pm 6 = 30)$
0.4	Write short notes on:	$(5 \times 6 = 30)$
Q. 4.	a. Newer approaches for identifying influenza virus	
	b. Human herpes viruses 6, 7, 8	
	c. Subcutaneous filariasis	
	d. Congenital toxoplasmosis	
	e. Pathogenesis of neurocysticercosis	

POST GRADUATE EXAMINATION, MAY - 2018

MD MICROBIOLOGY (PAPER FOUR)

RECENT ADVANCES

[Time	allotted: Three hours]	[Max Marks: 100]
Note:	Attempt all questions Illustrate with suitable diagrams.	
Q. 1.	Role of syndrome-specific multiplex PCR panels in diagnostic microbiology.	(20)
Q. 2.	Discuss quality assurance in the diagnostic microbiology laboratory.	(20)
Q. 3.	Describe briefly:	$(3 \times 10 = 30)$
	a. Laboratory diagnosis of Zika virus infection	
	b. Treatment options for XDR and PDR Gram-negative bacilli	
	c. Class II biological safety cabinets	
Q. 4.	Write short notes on:	$(5 \times 6 = 30)$
	a. Difference between humanized and fully human monoclonal antibodies	
	b. Pre-exposure prophylaxis against HIV infection	
	c. HPV vaccines	
	d. Faecal transplantation	
	e. Cephalosporins active against MRSA	
	X	